

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	746	((Steiner with (Adrian A)) (Grossman with (Mike M))).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
L3	530	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control \$4 regulat\$4 valve)) same ((fluid flow liquid rate) with (measur\$7 sens\$4 detect\$4 meter))))	US-PGPUB; USPAT	OR	ON	2009/07/23 15:33
L4	2	((Steiner with (Adrian A)) (Grossman with (Mike M))).in. and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
L5	61962	(Precision Weatherford).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35
L6	2	5 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35

S1	1	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	USPAT	OR	OFF	2006/02/23 15:05
S2	8	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	US-PGPUB; USPAT	OR	ON	2006/02/23 15:46
S3	14	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump	US-PGPUB; USPAT	OR	ON	2006/02/23 15:46
S4	62	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	US-PGPUB; USPAT	OR	ON	2006/02/24 12:22

S5	50	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller and \$5processor)	US-PGPUB; USPAT	OR	ON	2006/02/24 12:37
S6	49	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller and \$5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:38
S7	59	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:44
S8	43	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and	US-PGPUB; USPAT	OR	ON	2006/02/24 13:00

		downstream and (flow with control\$4 with orifice)				
S9	7	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and downstream and (flow with control\$4 with orifice)	US-PGPUB; USPAT	OR	ON	2006/02/24 14:59
S10	2863	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow)	US-PGPUB; USPAT	OR	ON	2006/08/10 17:45
S12	0	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5))	US-PGPUB; USPAT	OR	ON	2006/08/10 18:01
S13	23	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3	US-PGPUB; USPAT	OR	ON	2006/08/11 09:59

		measur\$5))				
S14	5	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5)) and (drilling rig)	US-PGPUB; USPAT	OR	ON	2006/08/11 12:11
S15	1	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5)) and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 09:59
S16	11	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:09
S17	7	(flow near1 rate) and ((flow near2 (sens\$3 detect\$3 measur\$5)) with (pitot and pilot)) and (pitot pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14
S18	7	(flow near1 rate) and ((flow near2 (sens\$3 detect\$3 measur\$5)) with (pitot and pilot))	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14

S19	356	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow))	US-PGPUB; USPAT	OR	ON	2006/08/11 12:29
S20	30	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 14:05
S21	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 15:01
S22	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant limit constraint tolerance)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/29 18:52

S23	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant limit constraint tolerance threshold)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 15:01
S24	28	("20030085036"   "20040007131"   "20060157282"   "4091881"   "4247312"   "5010966"   "5388650"   "5415776"   "5749422"   "5775442"   "5827357"   "5857522"   "5862869"   "5928519"   "6035952"   "6041873"   "6206113"   "6234258"   "6315813"   "6328107"   "6328118"   "6413297"   "6443245"   "6494262"   "6662885"   "6722436"   "6790367"   "6929068").FN.	US-PGPUB; USPAT	OR	ON	2007/01/29 18:52
S25	1196	(orifice with maintain\$4 with flow with fluid)	US-PGPUB; USPAT	OR	ON	2007/06/07 13:49
S26	487	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4)	US-PGPUB; USPAT	OR	ON	2007/06/07 14:06
S27	320	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and pump	US-PGPUB; USPAT	OR	ON	2007/06/07 14:14

S28	162	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:39
S29	55	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir) and controller	US-PGPUB; USPAT	OR	ON	2007/06/26 13:29
S30	162	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:07
S31	1	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir) and (wellbore borehole)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:48
S32	4	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 13:49
S33	19	(orifice with maintain\$4 with flow with fluid same within) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 14:20



S34	19842	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:17
S35	3864	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:20
S36	2428	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:23
S37	933	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:28
S38	101	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 15:42
S39	15	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/\$ "137"/\$)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:43

S40	47	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/\$ "137"/\$)	US-PGPUB; USPAT	OR	ON	2007/06/26 17:59
S41	1169	(wellbore with flow with control\$4)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:29
S42	428	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:39
S43	230	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4))	US-PGPUB; USPAT	OR	ON	2007/11/12 12:56
S44	230	(US-20070221380-\$ or US-20070215386-\$ or US-20070213963-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060113089-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$). did. or (US-20060037408-\$ or US-20060000614-\$ or US-20060000603-\$ or US-20050288819-\$ or US-20050279506-\$ or US-	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:50

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5706892-\$ or US-  
5662165-\$ or US-  
5622223-\$ or US-  
5597042-\$ or US-

		5579283-\$).did. or (US- 5573225-\$ or US- 5525040-\$ or US- 5517854-\$ or US- 5505263-\$ or US- 5482402-\$ or US- 5472050-\$ or US- 5439055-\$ or US- 5392867-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4989673-\$ or US- 4797821-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4605074-\$ or US- 4566536-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4091881-\$).did. or (US- 4063602-\$ or US- 4043192-\$ or US- 3705626-\$ or US- 3578077-\$).did.				
S45	230	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S44	US-PGPUB; USPAT	OR	ON	2007/11/12 12:54
S46	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 11:37

S47	184	(US-20070215386-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$ or US-20060037408-\$ or US-20060000603-\$ or US-20050288819-\$). did. or (US- 20050279506-\$ or US- 20050274547-\$ or US- 20050263287-\$ or US- 20050217350-\$ or US- 20050183574-\$ or US- 20050166961-\$ or US- 20050155760-\$ or US- 20050121197-\$ or US- 20050098349-\$ or US- 20050011645-\$ or US- 20040256161-\$ or US- 20040222018-\$ or US- 20040216874-\$ or US- 20040206548-\$ or US- 20040173351-\$ or US- 20040168811-\$ or US- 20040154805-\$ or US- 20040154803-\$ or US- 20040129874-\$ or US- 20040129428-\$ or US- 20040129070-\$ or US- 20040124008-\$ or US- 20040112642-\$ or US- 20040069539-\$ or US- 20040069504-\$ or US- 20040065477-\$ or US- 20040065440-\$).did. or (US-20040060705-\$ or	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:57
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or US-7270185-\$ or US-  
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		5439055-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4063602-\$ or US- 3705626-\$).did. or (US- 3578077-\$).did.				
S48	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S47	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35
S49	184	(US-20070215386-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$ or US-20060037408-\$ or US-20060000603-\$ or US-20050288819-\$). did. or (US- 20050279506-\$ or US- 20050274547-\$ or US- 20050263287-\$ or US- 20050217350-\$ or US- 20050183574-\$ or US- 20050166961-\$ or US-	US-PGPUB; USPAT	OR	OFF	2007/12/11 11:35

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		5896924-\$ or US- 5868201-\$ or US- 5857522-\$ or US- 5829520-\$ or US- 5803167-\$ or US- 5762149-\$ or US- 5741962-\$ or US- 5735346-\$ or US- 5732776-\$ or US- 5730219-\$ or US- 5721538-\$ or US- 5706896-\$).did. or (US- 5706892-\$ or US- 5662165-\$ or US- 5622223-\$ or US- 5597042-\$ or US- 5579283-\$ or US- 5573225-\$ or US- 5525040-\$ or US- 5517854-\$ or US- 5482402-\$ or US- 5472050-\$ or US- 5439055-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4063602-\$ or US- 3705626-\$).did. or (US- 3578077-\$).did.				
S50	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S49	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35
S51	185	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 13:02

S52	185	(US-20070278007-\$ or US-20070215386-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$ or US-20060037408-\$ or US-20060000603-\$). did. or (US- 20050288819-\$ or US- 20050279506-\$ or US- 20050274547-\$ or US- 20050263287-\$ or US- 20050217350-\$ or US- 20050183574-\$ or US- 20050166961-\$ or US- 20050155760-\$ or US- 20050121197-\$ or US- 20050098349-\$ or US- 20050011645-\$ or US- 20040256161-\$ or US- 20040222018-\$ or US- 20040216874-\$ or US- 20040206548-\$ or US- 20040173351-\$ or US- 20040168811-\$ or US- 20040154805-\$ or US- 20040154803-\$ or US- 20040129874-\$ or US- 20040129428-\$ or US- 20040129070-\$ or US- 20040124008-\$ or US- 20040112642-\$ or US- 20040069539-\$ or US- 20040069504-\$ or US- 20040065477-\$).did. or (US-20040065440-\$ or	US-PGPUB; USPAT	OR	OFF	2007/12/11 11:41
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		5472050-\$ or US- 5439055-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4063602-\$ or US- 3705626-\$).did. or (US- 3578077-\$).did.				
S53	185	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S52	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S54	59	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump and turbine and (pressure with (measur \$7 sens\$4 detect\$4))	US-PGPUB; USPAT	OR	ON	2007/12/11 15:23
S55	126	S53 not S54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S56	38	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur \$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 13:04

S57	25	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur \$7 sens\$4 detect\$4)) and pump not \$54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:04
S58	2541	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:01
S59	2389	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:15
S60	2141	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 exceed \$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16
S61	2187	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 exceed \$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16

S62	770	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:17
S63	986	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:18
S64	838	wellbore.bsum. and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:19
S65	316	wellbore.bsum. and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value))) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:20

S66	368	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same (((fluid flow liquid) with (regulat\$7 control\$4))) and (((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value)) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:21
S67	368	(US-20090166171-\$ or US-20090158837-\$ or US-20090140444-\$ or US-20090139724-\$ or US-20090126929-\$ or US-20090124521-\$ or US-20090120646-\$ or US-20090095480-\$ or US-20090095479-\$ or US-20090095478-\$ or US-20090095477-\$ or US-20090095476-\$ or US-20090090509-\$ or US-20090090504-\$ or US-20090090158-\$ or US-20090084547-\$ or US-20090078461-\$ or US-20090078036-\$ or US-20090071652-\$ or US-20090071647-\$ or US-20090044951-\$ or US-20090029878-\$ or US-20090020456-\$ or US-20090008560-\$ or US-20080317095-\$ or US-20080314638-\$). did. or (US- 20080314593-\$ or US- 20080289435-\$ or US- 20080271923-\$ or US- 20080264495-\$ or US- 20080262736-\$ or US- 20080257544-\$ or US- 20080230219-\$ or US- 20080210470-\$ or US- 20080182762-\$ or US- 20080156486-\$ or US- 20080149343-\$ or US- 20080149329-\$ or US- 20080133194-\$ or US- 20080115575-\$ or US- 20080115574-\$ or US-	US-PGPUB; USPAT	OR	OFF	2009/07/14 14:34

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4250974-\$ or US-  
3705626-\$ or US-  
3578077-\$).did.

S68	368	S67 and ((fluid flow liquid rate) with (maintain\$4 within keep \$4 above below exceed \$4) with (limit constraints range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:34
S69	368	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraint range boundary desired value)) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S70	368	S67 and ((fluid flow liquid rate) with (maintain\$4 within keep \$4 above below exceed \$4) with (limit constraint range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S71	379	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:49

S72	379	(US-20090166171-\$ or US-20090158837-\$ or US-20090140444-\$ or US-20090139724-\$ or US-20090126929-\$ or US-20090124521-\$ or US-20090120646-\$ or US-20090095480-\$ or US-20090095479-\$ or US-20090095478-\$ or US-20090095477-\$ or US-20090095476-\$ or US-20090091320-\$ or US-20090090509-\$ or US-20090090504-\$ or US-20090090158-\$ or US-20090084547-\$ or US-20090078461-\$ or US-20090078036-\$ or US-20090071652-\$ or US-20090071647-\$ or US-20090044951-\$ or US-20090029878-\$ or US-20090025930-\$ or US-20090020456-\$ or US-20090008560-\$). did. or (US- 20080317095-\$ or US- 20080314638-\$ or US- 20080314593-\$ or US- 20080289435-\$ or US- 20080271923-\$ or US- 20080264495-\$ or US- 20080262736-\$ or US- 20080257544-\$ or US- 20080230219-\$ or US- 20080210470-\$ or US- 20080182762-\$ or US- 20080156486-\$ or US- 20080149343-\$ or US- 20080149329-\$ or US- 20080133194-\$ or US- 20080115575-\$ or US- 20080115574-\$ or US- 20080110674-\$ or US- 20080110673-\$ or US- 20080093124-\$ or US- 20080067116-\$ or US- 20080066536-\$ or US- 20080041149-\$ or US- 20080007423-\$ or US- 20070246263-\$ or US- 20070235223-\$ or US- 20070227774-\$). did. or (US-20070215386-\$ or	US-PGPUB; USPAT	OR	OFF	2009/07/14 14:50
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S73	379	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and S72	US-PGPUB; USPAT	OR	ON	2009/07/14 14:51

S74	15423	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:39
S75	173	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir) and S72	US-PGPUB; USPAT	OR	ON	2009/07/14 16:40
S76	27	(US-20040098984-\$ or US-20030078751-\$ or US-20020117214-\$ or US-20050056313-\$ or US-20020005197-\$ or US-20030230307-\$ or US-20030066650-\$). did. or (US-6568416-\$ or US-4942763-\$ or US-5511582-\$ or US-6648576-\$ or US-6547505-\$ or US-6312209-\$ or US-5426137-\$ or US-6668943-\$ or US-5382411-\$ or US-4374544-\$ or US-6981561-\$ or US-5857522-\$ or US-3578077-\$ or US-5579283-\$ or US-5586027-\$ or US-6035952-\$ or US-6206108-\$ or US-6662110-\$ or US-6851444-\$ or US-7234524-\$).did.	US-PGPUB; USPAT	OR	OFF	2009/07/14 16:40
S77	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir) and S76	US-PGPUB; USPAT	OR	ON	2009/07/14 16:41

S78	1294	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:43
S79	732	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir with (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:43
S80	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir with (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:44
S81	9	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir same (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:44
S82	21	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:45

S83	2364	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:49
S84	1459	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter))) same ((fluid flow liquid) with (regulat\$7 control\$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S85	20	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter))) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S86	36	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter))) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:52

S87	65	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:53
S88	106	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 17:10
S89	41	S88 not S87	US-PGPUB; USPAT	OR	ON	2009/07/14 17:11
S90	124	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank source) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41

S91	106	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PCPUB; USPAT	OR	ON	2009/07/20 08:41
S92	18	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank source) same (feedback loop)) and wellbore not S91	US-PCPUB; USPAT	OR	ON	2009/07/20 08:41
S93	20	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump \$4 same (reservoir tank source) same (feedback loop)) and wellbore not S91	US-PCPUB; USPAT	OR	ON	2009/07/20 09:16

S94	45	( "20020117214"   "20030066650"   "20030078751"   "20030085036"   "20040007131"   "20060157282"   "3578077"   "4091881" "4197868"   "4247312"   "4374544" "4942763"   "5010966"   "5382411" "5388650"   "5415776"   "5426137" "5426137"   "5511582"   "5694966" "5749422"   "5775442"   "5827357" "5857522"   "5857522"   "5862869" "5921962"   "5928519"   "6035952" "6041873"   "6048175"   "6206113" "6234258"   "6312209"   "6315813" "6328107"   "6328118"   "6413297" "6443245"   "6494262"   "6568416" "6662885"   "6668943"   "6722436" "6790367"   "6929068"   "6981561").FN.	US-PGPUB; USPAT	OR	ON	2009/07/20 09:30
S95	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump \$4 same (reservoir tank source vessel container) same (feedback loop)) and wellbore not (S91 S93)	US-PGPUB; USPAT	OR	ON	2009/07/20 09:56
S96	25	S94 and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:00
S97	899	700/282.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01



S98	237	700/283 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S99	412	137/2 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S100	175	137/7 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S101	138	137/8 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S102	281	137/101 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S103	436	137/110 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S104	277	700/284 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S105	517	251/5 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S106	597	137/14 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S107	101	137/485 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S108	699	137/486 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S109	1198	137/487.5 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S110	603	137/489 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S111	1275	137/557 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S112	403	175/5 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S113	146	175/25 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S114	151	175/38 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S115	338	175/48 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S116	369	702/9 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S117	267	702/12 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S118	752	702/45 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S119	549	702/50 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S120	478	702/100 ccls	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03

S121	237	702/113.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S122	86	702/114.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S123	152	166/252.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S124	245	166/358.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S125	60211	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel))	US-PGPUB; USPAT	OR	ON	2009/07/20 10:04
S126	1258	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:04
S127	1270	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:05

S128	528	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control \$4 regulat\$4 valve)) same ((fluid flow liquid rate) with (measur\$7 sens\$4 detect\$4 meter)))	US-PGPUB; USPAT	OR	ON	2009/07/20 10:07
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